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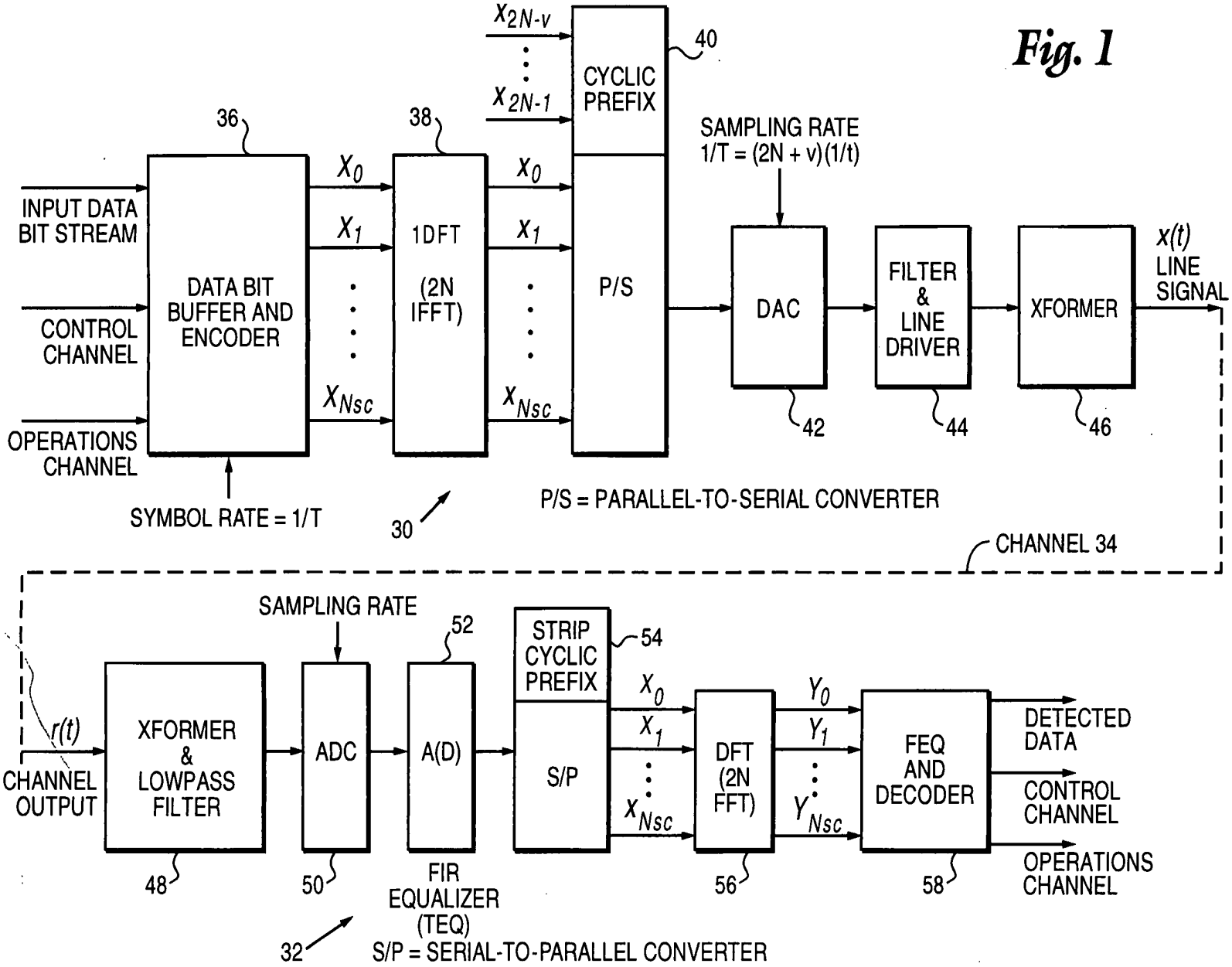

Fig. 1

09527820 "ET827960

Fig. 2

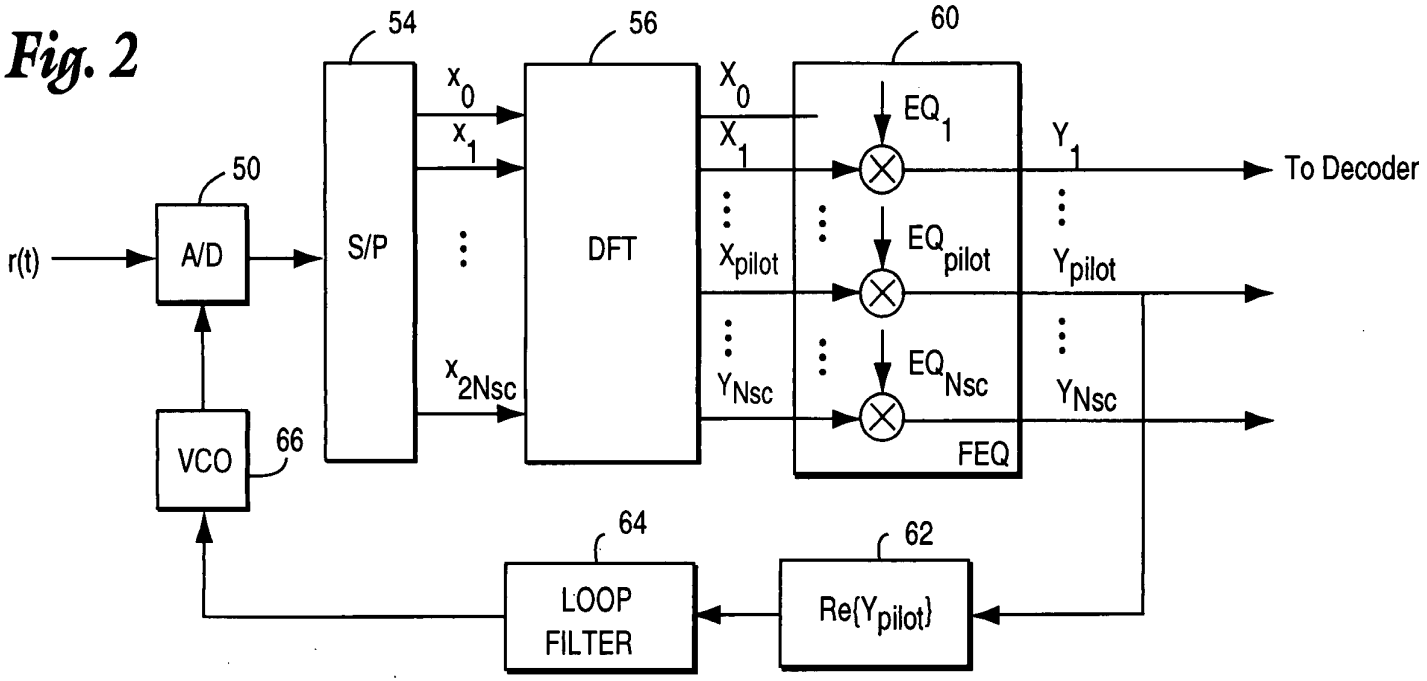

Fig. 3

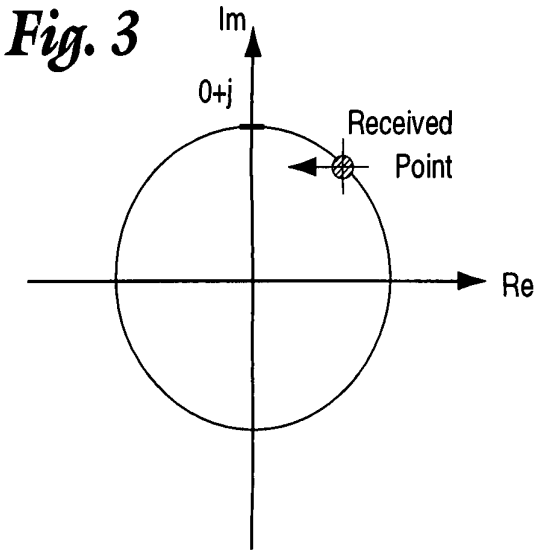

Fig. 5

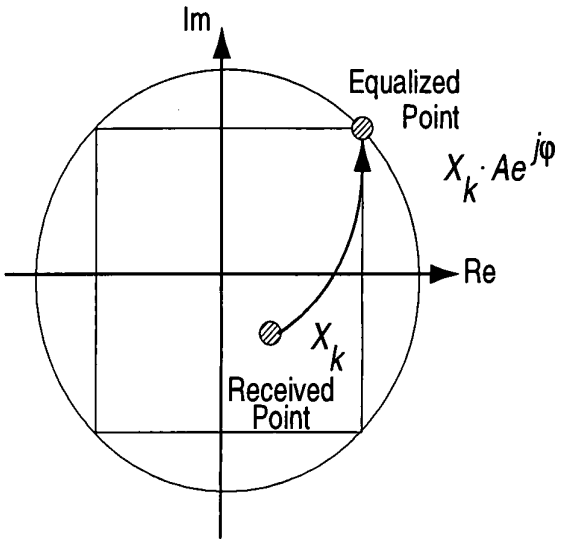

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Fig. 4A

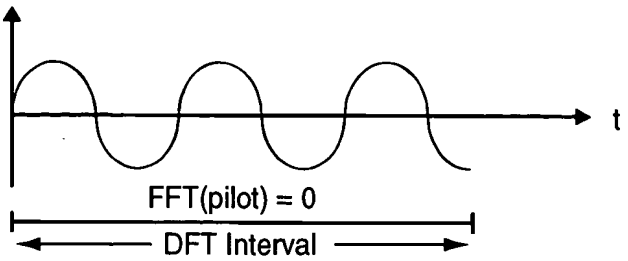


Fig. 4B

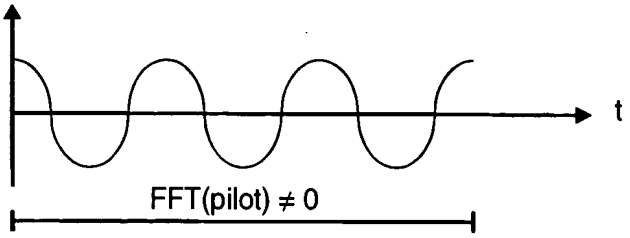


Fig. 4C

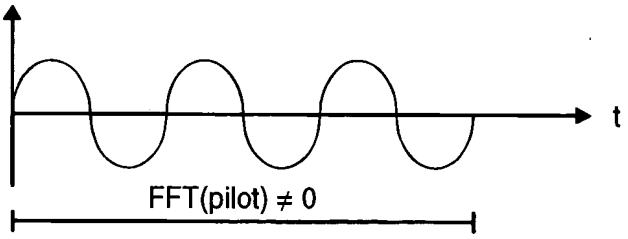
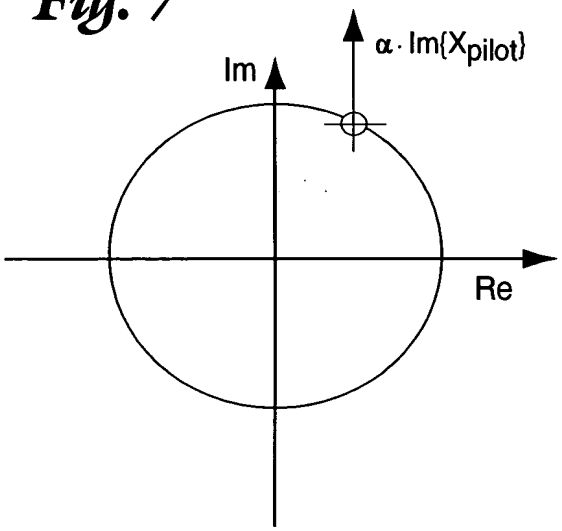


Fig. 7



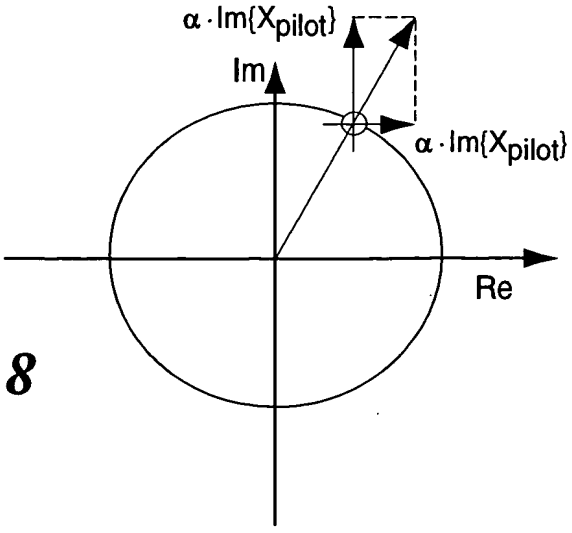


Fig. 8

00270 ET627960

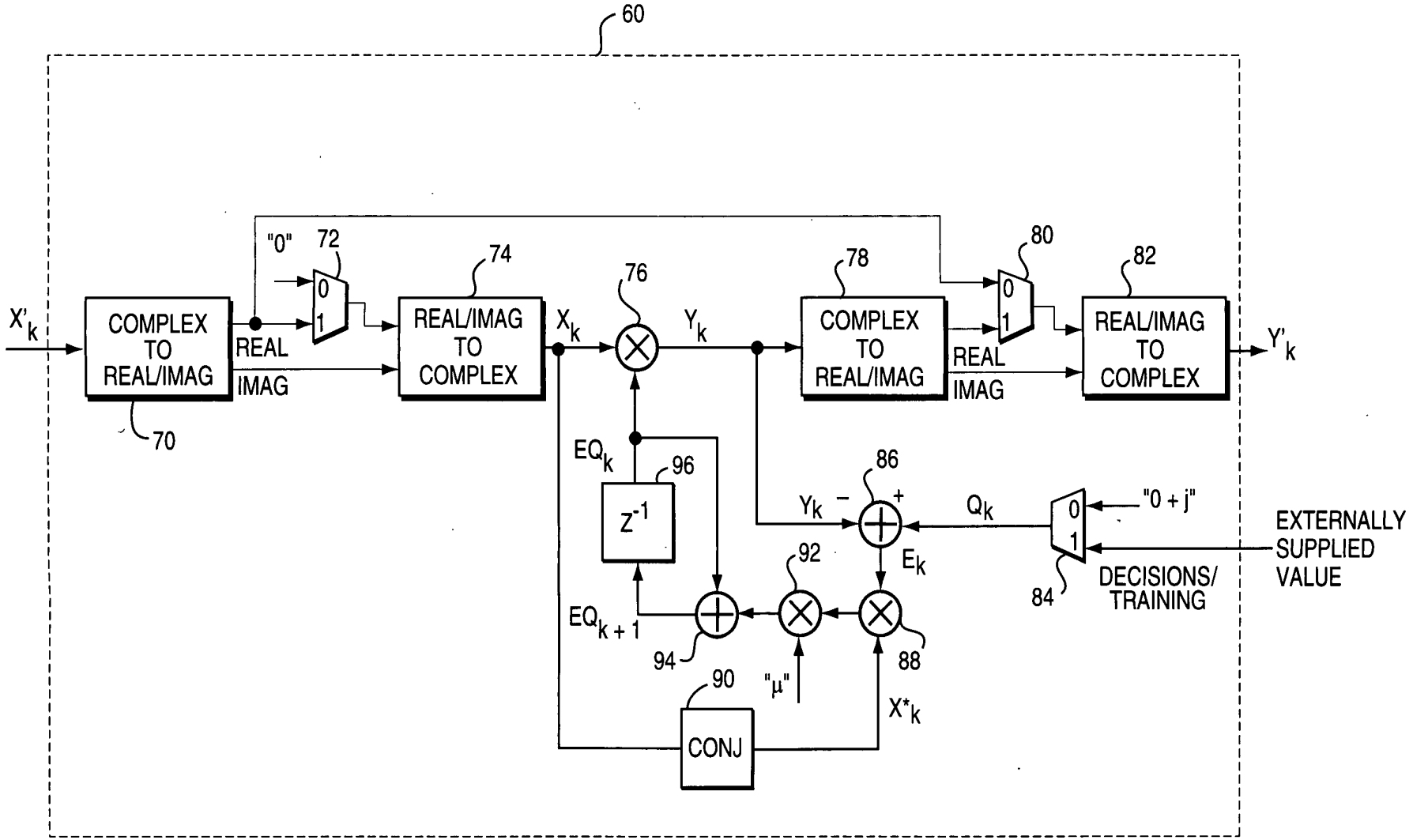


Fig. 6

0027207 ET827980

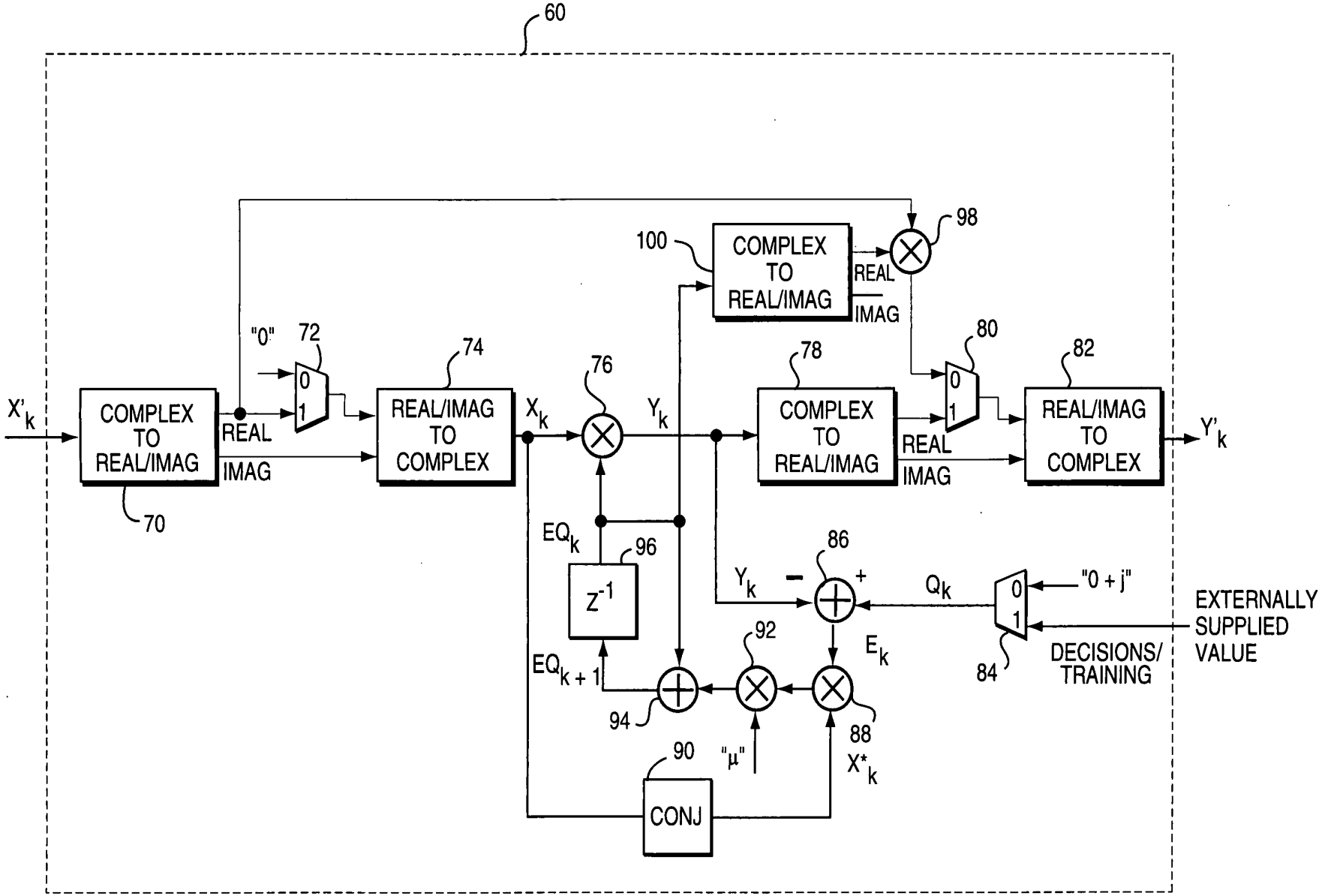


Fig. 9

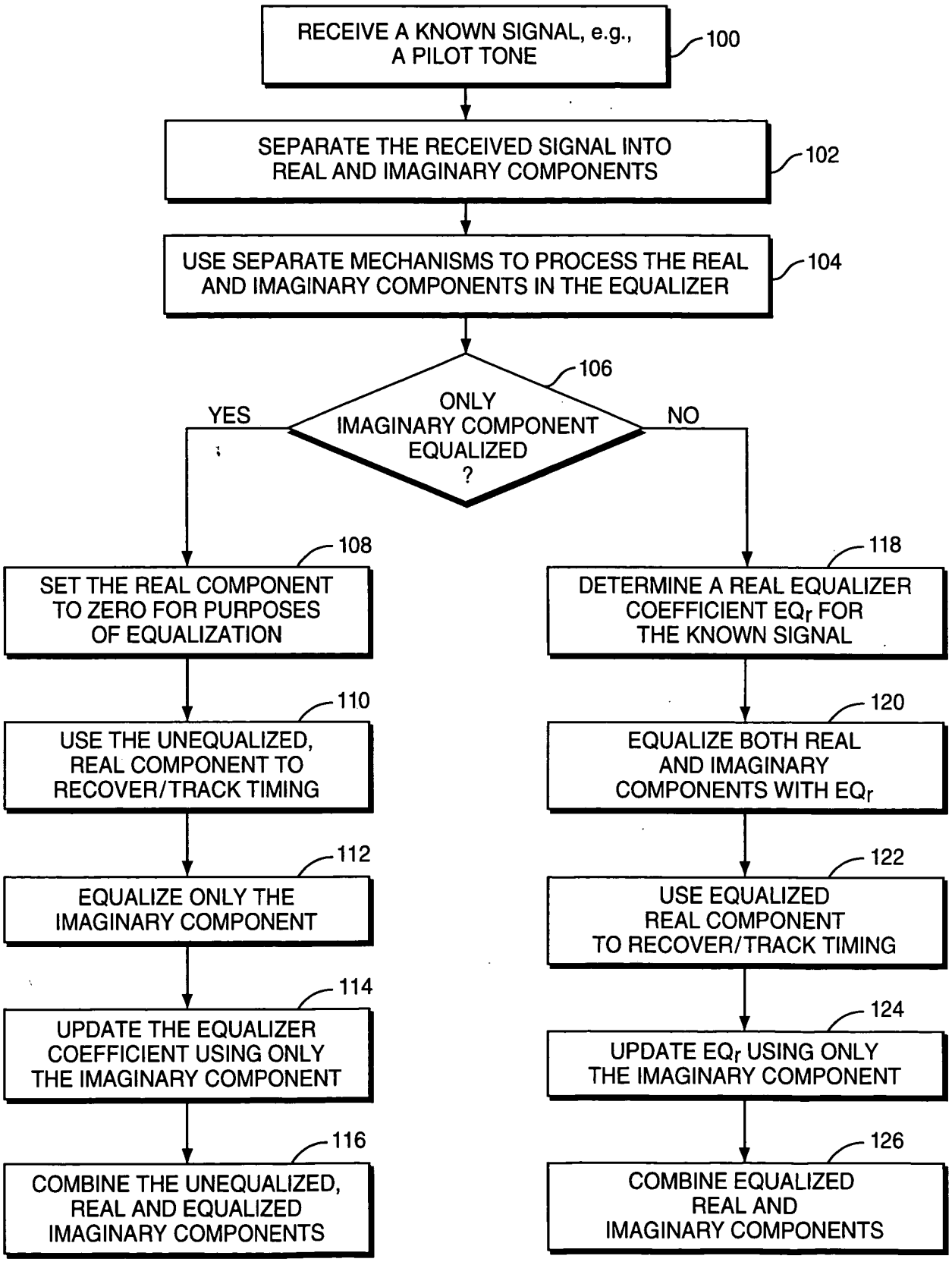
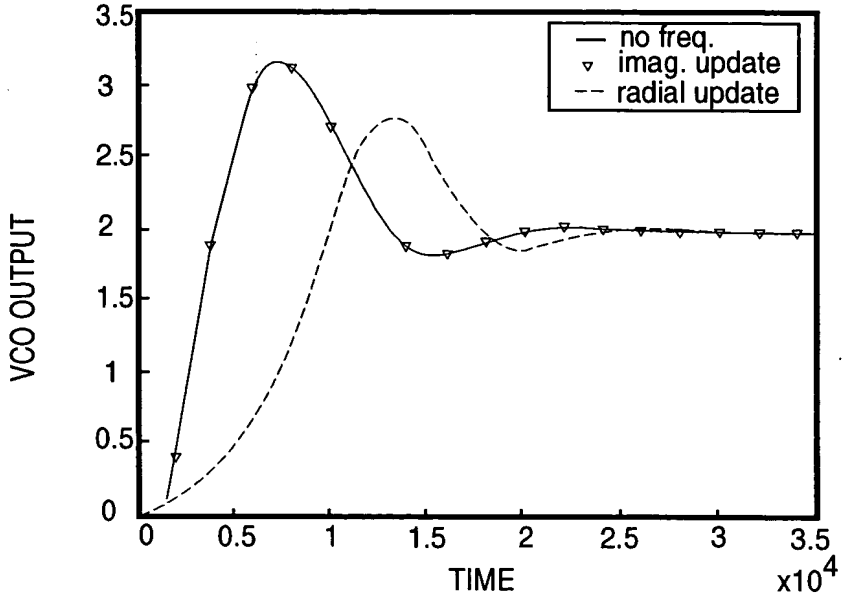

RECEIVE A KNOWN SIGNAL, e.g., A PILOT TONE
100
SEPARATE THE RECEIVED SIGNAL INTO REAL AND IMAGINARY COMPONENTS
102
USE SEPARATE MECHANISMS TO PROCESS THE REAL AND IMAGINARY COMPONENTS IN THE EQUALIZER
104
106
ONLY IMAGINARY COMPONENT EQUALIZED ?
YES
NO
108
SET THE REAL COMPONENT TO ZERO FOR PURPOSES OF EQUALIZATION
110
USE THE UNEQUALIZED, REAL COMPONENT TO RECOVER/TRACK TIMING
112
EQUALIZE ONLY THE IMAGINARY COMPONENT
114
UPDATE THE EQUALIZER COEFFICIENT USING ONLY THE IMAGINARY COMPONENT
116
COMBINE THE UNEQUALIZED, REAL AND EQUALIZED IMAGINARY COMPONENTS
118
DETERMINE A REAL EQUALIZER COEFFICIENT EQ_r FOR THE KNOWN SIGNAL
120
EQUALIZE BOTH REAL AND IMAGINARY COMPONENTS WITH EQ_r
122
USE EQUALIZED REAL COMPONENT TO RECOVER/TRACK TIMING
124
UPDATE EQ_r USING ONLY THE IMAGINARY COMPONENT
126
COMBINE EQUALIZED REAL AND IMAGINARY COMPONENTS

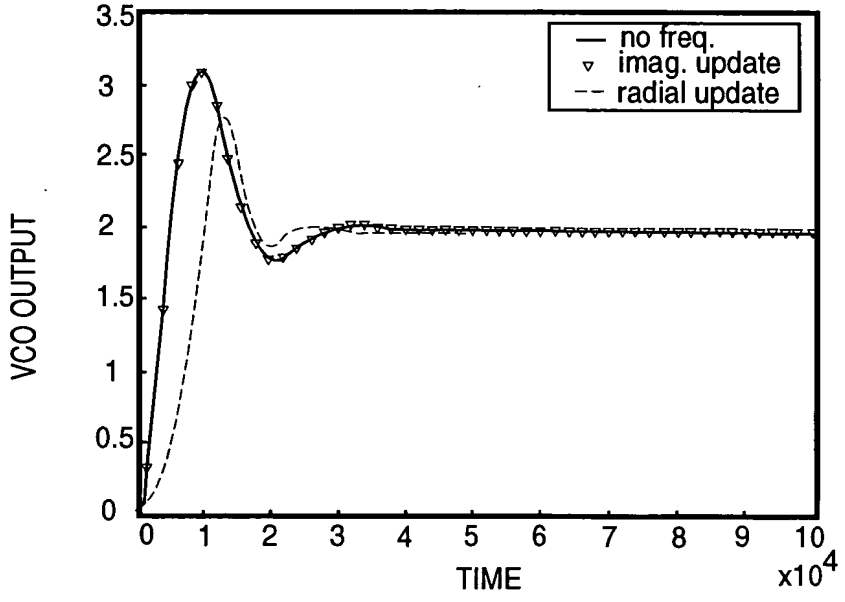
Fig. 10

Fig. 11



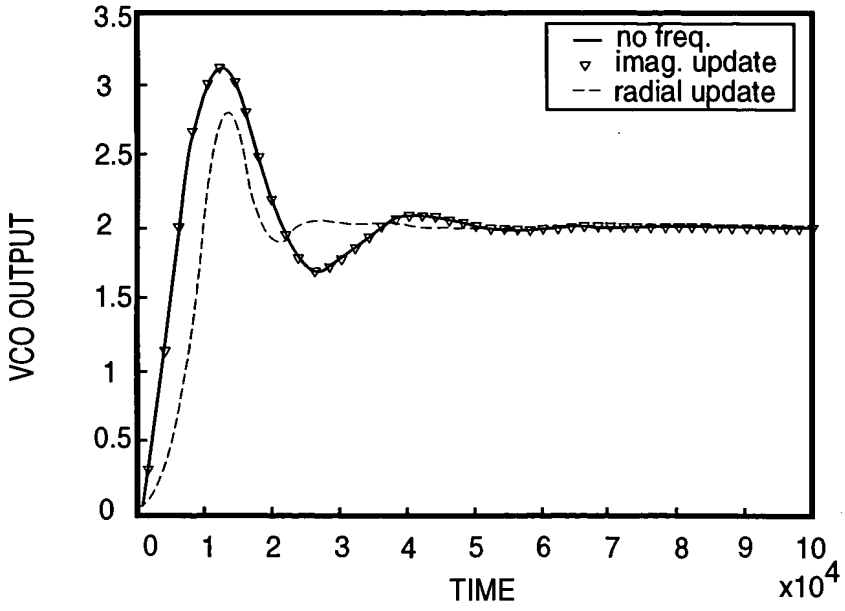
Transient Response for OdB attenuation

Fig. 12



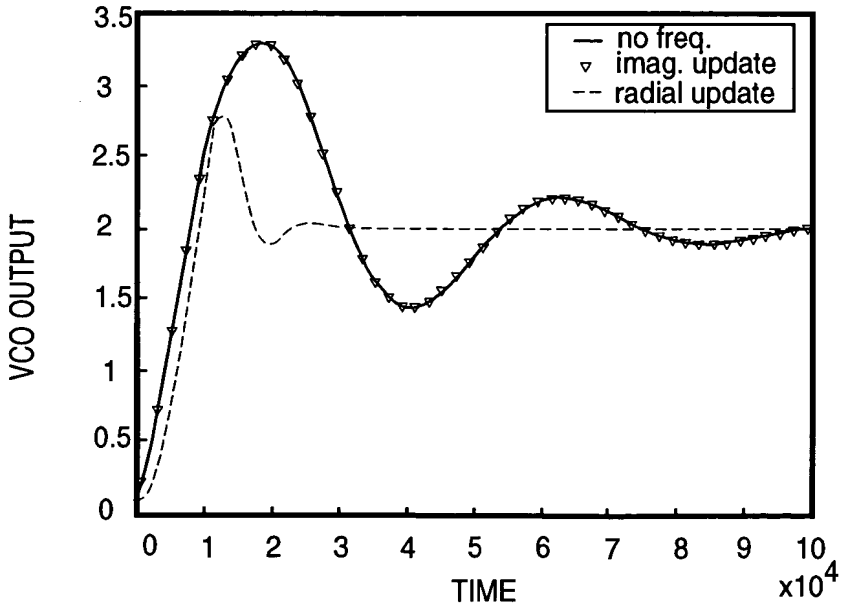
Transient Response for 3dB attenuation

Fig. 13



Transient Response for 6dB attenuation

Fig. 14



Transient Response for 12dB attenuation